

Table S1: The statistics of ROI size for different expression subgroups between the arterial and portal vein phase MR images.

Expression status	Portal vein phase(cm ³)	Arterial phase(cm ³)	P-value ^a
PD-1(+)	41.70(14.46, 169.16) ^b	42.97(14.92, 165.28)	0.992
PD-1(-)	32.27(10.00, 75.52)	31.52(8.61, 74.73)	0.793
PD-L1(+)	33.33(5.02, 93.43)	30.49(3.88, 97.54)	0.799
PD-L1(-)	40.38(12.64, 118.89)	38.48(12.86, 121.57)	0.993

a. Statistically significant level: $P < 0.05$

b. The variables with abnormal distribution were depicted by median (interquartile range, IQR)